

## **REMARKS**

Claims 1-15 are pending. Claims 1-3, 9, 10 and 12-15 were rejected by the Examiner in the office Action dated May 9, 2008. Claims 4-8 and 11 were objected to. Reconsideration of all claims is requested in light of the arguments and amendments presented here.

### **Claim Rejections Under 35 U.S.C. §102**

Claims 1-3, 9 and 10 were rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 5,682,107 to Tavana et al. ("Tavana"). Claim 1 is amended to recite certain features from claim 4, which was indicated to contain allowable subject matter. Claim 1 is thus believed to be allowable. Claim 1 as amended recites, "the input line network is configured to provide at least a first one of the input signals to both the first K-LUT portion and the second K-LUT portion in a first state, and provide a first carry-in signal to the first K-LUT portion and a second carry-in signal to the second K-LUT portion in a second state." No such input line network is shown by Tavana. In particular, Tavana does not show function generators F, G, H, and J (cited as K-LUT portions) receiving the same input signal in a first mode, and receiving carry-in signals in a second mode. Therefore, claim 1 is submitted to be allowable.

Claims 2-14 depend from claim 1 and are submitted to be allowable to at least for depending from an allowable base claim. Furthermore, claims 2-14 recite additional claim elements that have not been shown in the reference, including but not limited to those recited in claims 4-8 and 11.

### **Claim Rejections Under 35 U.S.C. §103**

Claims 12-15 were rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent No. 5,682,107 to Tavana et al. ("Tavana") in view of U.S. Patent No. 5,724,276 to Rose et al. ("Rose"). Claim 14 is amended to be consistent with claim 1. Claims 14 and 15 each recite, "at least one output multiplexer, each of the at least one output multiplexers coupled to select among signals at the outputs of the K-LUT, under the control of a carry-in signal to the LE, to provide an arithmetic output signal from the LE to an output line of the output line network." The Office action acknowledged that Tavana fails to disclose these features and cited Rose instead. However, the cited multiplexer of Rose (F5 of FIG. 2b) does not select among signals at

the outputs of the K-LUT, under the control of a carry-in signal. Multiplexer F5 appears to either select between the output of LUT G and LUT F, or alternatively select between the output of LUT F and its inverse. “If memory cell M carries a logic 1, the LUT G output signal is provided to multiplexer F5 and multiplexer F5 functions as in FIG 1a,” column 2, lines 40-42. However, there is no disclosure that the multiplexer is under the control of a carry-in signal in this case (see FIG. 1a). Alternatively, “If memory cell M carries logic 0, then multiplexer F5 provides a choice of the inverted or noninverted output signal from LUT F as controlled by the signal on line BY,” column 2, lines 42-45. “In FIG. 2b, the carry-in signal is applied to line BY and thus controls multiplexer F5.” Column 2, line 67 – column 3, line 1. However, in this case multiplexer F5 is not selecting among signals at the outputs of a LUT, it is simply selecting between a single output (from LUT F) and its inverse. Thus, multiplexer F5 is not disclosed as selecting among signals at the outputs of a LUT under the control of a carry-in signal in either of these cases. Because these elements have not been shown, claims 14 and 15 are submitted to be allowable.

#### **New Claim**

Claim 16 is added. Claim 16 is supported throughout the application, for example by claim 4 as originally filed. Claim 16 is submitted to be allowable for at least the same reasons that claim 4 was indicated to be allowable.

#### **Information Disclosure Statement**

A Supplemental Information Disclosure Statement is being filed herewith. It is respectfully requested that this Supplemental Information Disclosure Statement be considered and the PTO Form 1449 be initialed and returned with the next Action.

#### **CONCLUSION**

Accordingly, it is believed that this application is now in condition for allowance and an early indication of its allowance is solicited. Should the Examiner believe that a telephone

conference would expedite the prosecution of this application; the undersigned can be reached at the telephone number set out below.

Respectfully submitted,  
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